

M-L-S-N-L-R-I-L-N-K-A-A-L-R-K-A-H-T-S-M-V-R-N-F-R-Y-G-K-P-V-Q-S-Q-L-K-P-R-D-L-C amino-terminal end

carboxy-terminal end

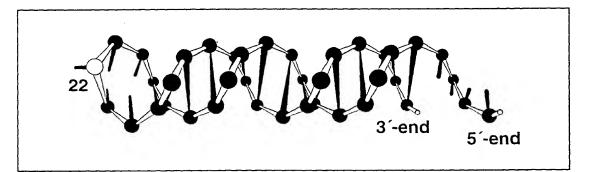
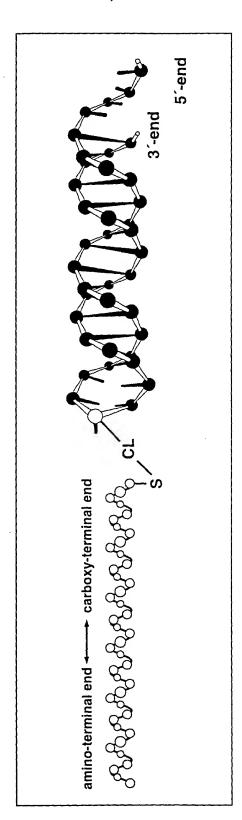


Figure 3



The limit that the trade of the

Figure 4

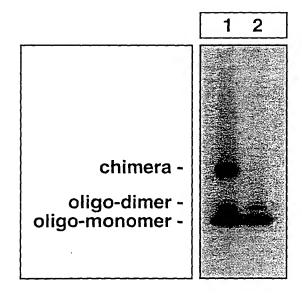
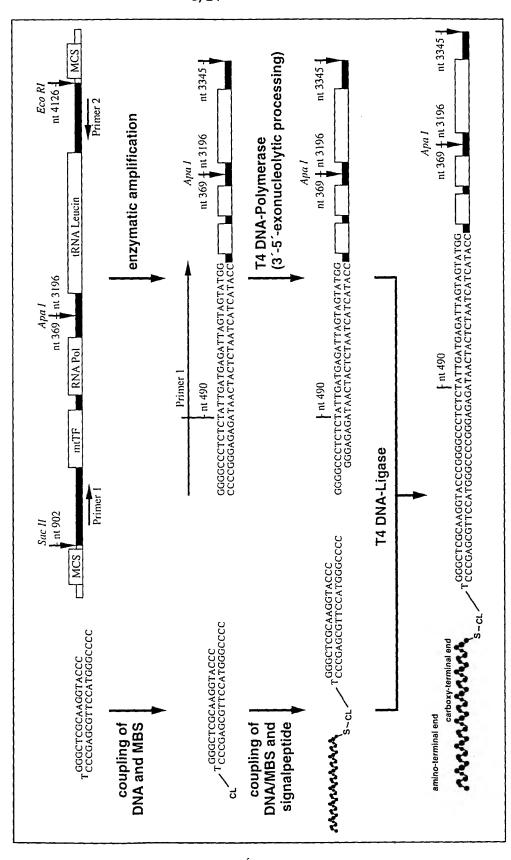


Figure 5a



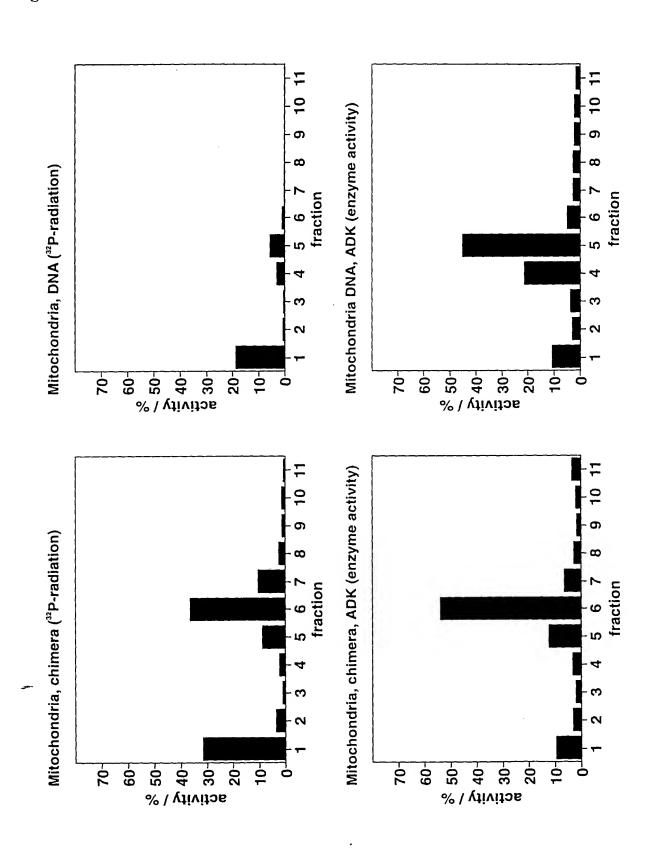
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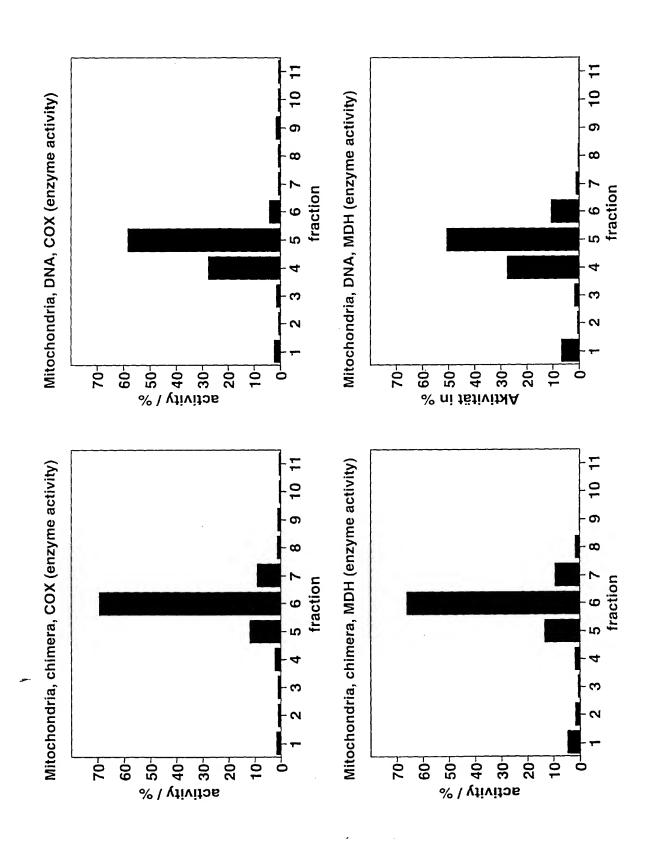
Figure 5b

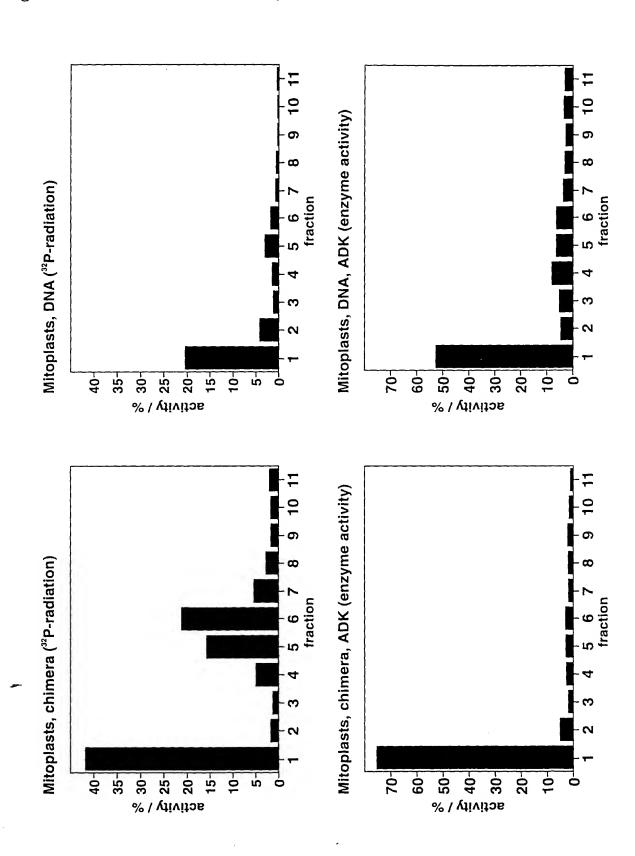
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	ACCGTGCTTT				
	80 AAAGGTTAAT TTTCCAATTA				
	140 TTGCTGCGTG AACGACGCAC				
	200 GAACGGGGAT CTTGCCCCTA				
	260 CTATTTGTTT GATAAACAAA				
310 GCTTTGAGGA CGAAACTCCT	320 GGTAAGCTAC CCATTCGATG	330 ATAAACTGTG TATTTGACAC	340 GGGGGTGTCT CCCCCACAGA	350 TTGGGGTTTG AACCCCAAAC	360 TTGGTTCGG AACCAAGCC
	380 TAGCAGCGGT ATCGTCGCCA				
	440 TATGGGAGTG ATACCCTCAC				
	500 CGCCAAAAGA GCGGTTTTCT				
	560 CACCCAAGAA GTGGGTTCTT				
	620 TTACAGTCAG AATGTCAGTC				
	680 TCATTGTACC AGTAACATGG		GCAATGGCAT	TCCTAATGCT	
	740 GCTATATACA CGATATATGT				
	800 TCGCTGACGC AGCGACTGCG				

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	860 CCCTCTACAT GGGAGATGTA			TCACCATCGC	
	920 TCCCCATACC AGGGGTATGG				
	980 CTAGCCTAGC GATCGGATCG				
1030 AACTACGCCC TTGATGCGGG	1040 TGATCGGCGC ACTAGCCGCG	1050 ACTGCGAGCA TGACGCTCGT	1060 GTAGCCCAAA CATCGGGTTT	1070 CAATCTCATA GTTAGAGTAT	1080 GAAGTCACC CTTCAGTGG
	1100 TTCTACTATC AAGATGATAG				
	1160 AAGAACACCT TTCTTGTGGA		CTGCCATCAT		
	1220 CACTAGCAGA GTGATCGTCT				
	1280 CAGGCTTCAA GTCCGAAGTT	CATCGAATAC	GCCGCAGGCC	CCTTCGCCCT	TTCTTCATA
1330 GCCGAATACA CGGCTTATGT	1340 CAAACATTAT GTTTGTAATA	1350 TATAATAAAC ATATTATTTG	1360 ACCCTCACCA TGGGAGTGGT	1370 CTACAATCTT GATGTTAGAA	1380 CTAGGAACA GATCCTTGT
,,,,,,,,,,,	1400 CACTCTCCC GTGAGAGGGG				
	1460 TGTTCTTATG ACAAGAATAC				







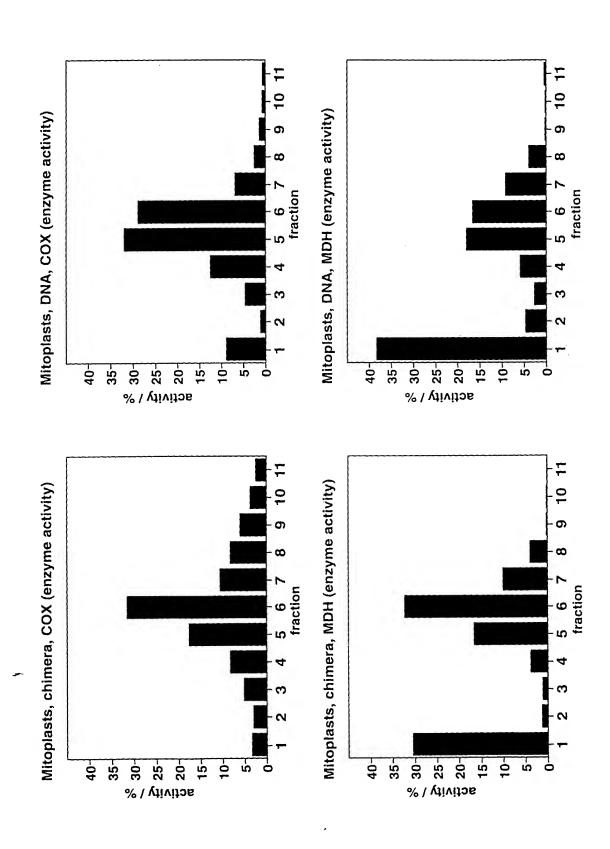
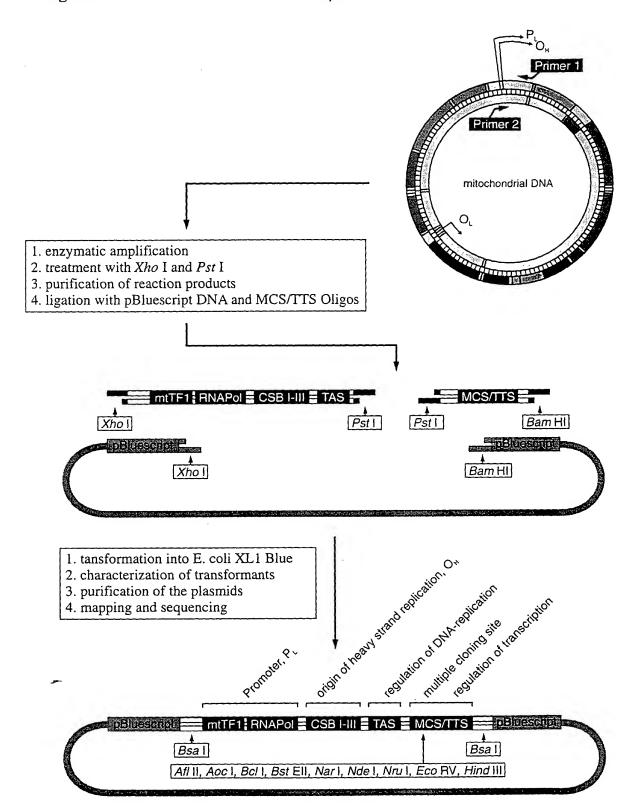


Figure 8

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that that that the think that the the the the think that the the think the the



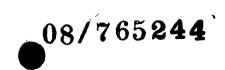


Figure 10 14/24

	22	2.0	4.0	~~	60
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	80 TCTAAACATT AGATTTGTAA				
	140 TTTGGGGTTT AAACCCCAAA				
	200 TGGGCGGGG ACCCGCCCC				
250 AATAATGTGT TTATTACACA	260 TAGTTGGGGG ATCAACCCCC	270 GTGACTGTTA CACTGACAAT	280 AAAGTGCATA TTTCACGTAT	290 CCGCCAAAAG GGCGGTTTTC	300 ATAAAATTTG TATTTTAAAC
310 AAATCTGGTT TTTAGACCAA	320 AGGCTGGTGT TCCGACCACA	330 TAGGGTTCTT ATCCCAAGAA	340 TGTTTTTGGG ACAAAAACCC	350 GTTTGGCAGA CAAACCGTCT	360 GATGTGTTTA CTACACAAAT
370 AGTGCTGTGG TCACGACACC	380 CCAGAAGCGG GGTCTTCGCC	390 GGGAGGGGG CCCTCCCCC	400 GTTTGGTGGA CAAACCACCT	410 AATTTTTTGT TTAAAAAACA	420 TATGATGTCT ATACTACAGA
430 GTGTGGAAAG CACACCTTTC	440 TGGCTGTGCA ACCGACACGT	450 GACATTCAAT CTGTAAGTTA	460 TGTTATTATT ACAATAATAA	470 ATGTCCTACA TACAGGATGT	480 AGCATTAATT TCGTAATTAA
	500 CTTTAGTAAG GAAATCATTC				
	560 CAGGAATCAA GTCCTTAGTT				
					660 GAGAGCTCCC CTCTCGAGGG
670 GTGAGTGGTT CACTCACCAA	680 AATAGGGTGA TTATCCCACT	TAGACCTGTG	700 ATCCATCGTG TAGGTAGCAC	ATGTCTTATT	720 TAAGGGGAAC ATTCCCCTTG
					780 TACAGTTCAC ATGTCAAGTG

	800 CCCAAGTGTT GGGTTCACAA				
	860 CGGAGGATGG GCCTCCTACC				
	920 ATTTGACTGT TAAACTGACA				
	980 GGGTAGGTTT CCCATCCAAA				
	1040 GATAGTTGAG CTATCAACTC				
	1100 ATTGGGTTTT TAACCCAAAA				
1150 TATTCATGGT ATAAGTACCA	1160 GGCTGGCAGT CCGACCGTCA	1170 AATGTACGAA TTACATGCTT	1180 ATACATAGCG TATGTATCGC	GTTGTTGATG	1200 GGTGAGTCAA CCACTCAGTT
1210 TACTTGGGTG ATGAACCCAC	1220 GTACCCAAAT CATGGGTTTA	1230 CTGCTTCCCC GACGAAGGGG	1240 ATGAAAGAAC TACTTTCTTG	1250 AGAGAATAGT TCTCTTATCA	1260 TTAAATTAGA AATTTAATCT
1270 ATCTTAGCTT TAGAATCGAA	1280 TGGGTGCTAA ACCCACGATT	1290 TGGTGGAGTT ACCACCTCAA	AAAGACTTTT	TCTCTGATTT	1320 GTCCTTGGAA CAGGAACCTT
	1340 ATCTCCGGTT TAGAGGCCAA				
	1400 GGTCACCATA CCAGTGGTAT				

1450 AATGAGACCG GATCC TTACTCTGGC CTAGG

Figure 11

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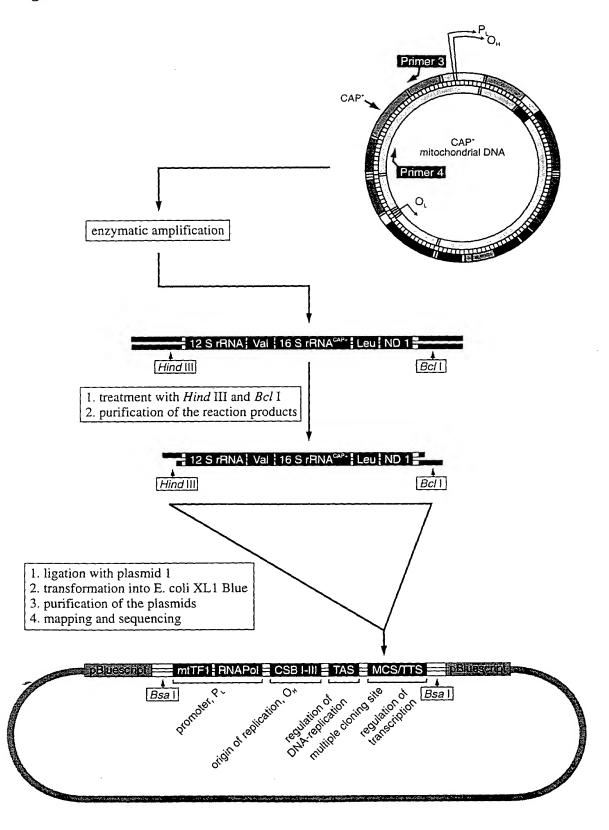


Figure 12

	20 TCAGGGGCTA AGTCCCCGAT				
	80 TCTAAACATT AGATTTGTAA				
	140 TTTGGGGTTT AAACCCCAAA				
	200 TGGGCGGGG ACCCGCCCC				
	260 TAGTTGGGGG ATCAACCCCC				
	320 AGGCTGGTGT TCCGACCACA				
	380 CCAGAAGCGG GGTCTTCGCC				
430 GTGTGGAAAG CACACCTTTC	440 TGGCTGTGCA ACCGACACGT	450 GACATTCAAT CTGTAAGTTA	460 TGTTATTATT ACAATAATAA	470 ATGTCCTACA TACAGGATGT	480 AGCATTAATT TCGTAATTAA
	500 CTTTAGTAAG GAAATCATTC				
	560 CAGGAATCAA GTCCTTAGTT				
	620 ATCGCGTGCA TAGCGCACGT				
	680 AATAGGGTGA TTATCCCACT		ATCCATCGTG	ATGTCTTATT	TAAGGGGAAC
	740 TTTAGGCTTT AAATCCGAAA		TCATCCTTGG	TCTACAGCCT	ATGTCAAGTG
790 TTTAGCTACC AAATCGATGG	800 CCCAAGTGTT GGGTTCACAA	810 ATGGGCCCGG TACCCGGGCC	820 AGCGAGGAGA TCGCTCCTCT	830 GTAGCACTCT CATCGTGAGA	TGTGCGGGAT

050	
850 860 870 880 ATTGATTTCA CGGAGGATGG TGGTCAAGGG ACCCCTATCT GAGGG TAACTAAAGT GCCTCCTACC ACCAGTTCCC TGGGGATAGA CTCCC	
910 920 930 940 ACGAGAAGGG ATTTGACTGT AATGTGCTAT GTACGGTAAA TGGCT TGCTCTTCCC TAAACTGACA TTACACGATA CATGCCATTT ACCGA	-
970 980 990 1000 TGTTAAGGGT GGGTAGGTTT GTTGGTATCC TAGTGGGTGA GGGGTGACAATTCCCA CCCATCCAAA CAACCATAGG ATCACCCACT CCCCA	
1030 1040 1050 1060 GTTGATGTGT GATAGTTGAG GGTTGATTGC TGTACTTGCT TGTAACCACTACACA CTATCAACTC CCAACTAACG ACATGAACGA ACATTC	
1090 1100 1110 1120 TTTGATGTGG ATTGGGTTTT TATGTACTAC AGGTGGTCAA GTATTAAAACTACACC TAACCCAAAA ATACATGATG TCCACCAGTT CATAA	
1150 1160 1170 1180 TATTCATGGT GGCTGGCAGT AATGTACGAA ATACATAGCG GTTGT ATAAGTACCA CCGACCGTCA TTACATGCTT TATGTATCGC CAACA	
1210 1220 1230 1240 TACTTGGGTG GTACCCAAAT CTGCTTCCCC ATGAAAGAAC AGAGA ATGAACCCAC CATGGGTTTA GACGAAGGGG TACTTTCTTG TCTCT	
1270 1280 1290 1300 ATCTTAGCTT TGGGTGCTAA TGGTGGAGTT AAAGACTTTT TCTCT TAGAATCGAA ACCCACGATT ACCACCTCAA TTTCTGAAAA AGAGA	
1330 1340 1350 1360 AAAGGTTTTC ATCTCCGGTT TACAAGACTG GTGTATTAGC TGCAG TTTCCAAAAG TAGAGGCCAA ATGTTCTGAC CACATAATCG ACGTC	
1390 1400 1410 1420 TAACATGGTA AGTGTACTGG AAAGTGCACT TGGACGAACC AGAGT ATTGTACCAT TCACATGACC TTTCACGTGA ACCTGCTTGG TCTCA	
1450 1460 1470 1480 GCACCCAACT TACACTTAGG AGATTTCAAC TTAACTTGAC CGCTC CGTGGGTTGA ATGTGAATCC TCTAAAGTTG AATTGAACTG GCGAG	
1510 1520 1530 1540 CCCAAACCCA CTCCACCTTA CTACCAGACA ACCTTAGCCA AACCA GGGTTTGGGT GAGGTGGAAT GATGGTCTGT TGGAATCGGT TTGGT	
1570 1580 1590 1600 TATAGGCGAT AGAAATTGAA ACCTGGCGCA ATAGATATAG TACCG ATATCCGCTA TCTTTAACTT TGGACCGCGT TATCTATATC ATGGC	
1630 1640 1650 1660 AAATTATAAC CAAGCATAAT ATAGCAAGGA CTAACCCCTA TACCT TTTAATATTG GTTCGTATTA TATCGTTCCT GATTGGGGAT ATGGA	



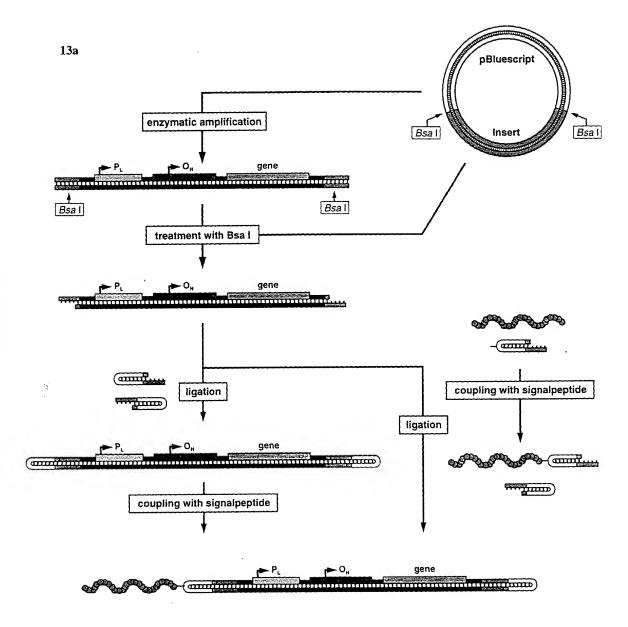
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1940 GCTCTTTGGA CGAGAAACCT				
2000 GGCCTAAAAG CCGGATTTTC				
 2060 TCCCAAACAT AGGGTTTGTA				
 2120 AACTAATGTT TTGATTACAA			ATTCTCCTCC	
2180 AAAACACTGA TTTTGTGACT				
2240 CCCTCACTGT GGGAGTGACA				
2300 ACTCGGCAAA TGAGCCGTTT				
2360 AGAGGCACCG TCTCCGTGGC		GACACATGTT	TAACGGCCGC	
2420 GTAGCATAAT CATCGTATTA				
 2480 CTGTCTCTTA GACAGAGAAT	CTTTTAACCA	GTGAAATTGA	CCTGCCCGTG	AAGAGGCGGG



2520	2540	2550	2560	2570	2500
2530	2540		2560	2570	2580
CATAACACAG	CAAGACGAGA	AGACCCTATG	GAGCTTTAAT	TTATTAATGC	AAACAGTACC
GTATTGTGTC	GTTCTGCTCT	TCTGGGATAC	CTCGAAATTA	AATAATTACG	TTTGTCATGG
01111101010					
2590	2600	2610	2620	2630	2640
	ACAGGTCCTA				
ATTGTTTGGG	TGTCCAGGAT	TTGATGGTTT	GGACGTAATT	T"TTAAAGCCA	ACCCCGCTGG
0.550	0.5.50	0.070	2600	0.000	0500
2650	2660	2670	2680	2690	2700
TCGGAGCAGA	ACCCAACCTC	CGAGCAGTAC	ATGCTAAGAC	TTCACCAGTC	AAAGCGAACT
	TGGGTTGGAG				
AGCCTCGTCT	1GGG11GGAG	GCICGICAIG	IACGALICIG	AAGIGGICAG	TITCGCTTGA
2710	2720	2730	2740	2750	2760
	ATTGATCCAA				
TGATATGAGT	TAACTAGGTT	ATTGAACTGG	TTGCCTTGTT	CAATGGGATC	CCTATTGTCG
. 0 0					
2770	2780	2790	2800	2810	2820
	TCTAGAGTCC			CACCTCCATC	THE CARCACE
GCAATCCTAT	TCTAGAGTCC	ATATCAACAA	IAGGGIIIAC	GACCICGAIG	TIGGATCAGG
CGTTAGGATA	AGATCTCAGG	TATAGTTGTT	ATCCCAAATG	CTGGAGCTAC	AACCTAGTCC
	0010	0050	0060	2072	2000
2830	2840	2850	2860	2870	2880
ACATCCCGAT	GGTGCAGCCG	CTATTAAAGG	TTCGTTTGTT	CAACGATTAA	AGTCCTACGT
mema cecema	CCACGTCGGC	CAMAAMMMCC	AACCAAACAA	CONCOURA A TO	TCAGGATGCA
IGIAGGGCIA	CCACGICGGC	GATAATTICC	AAGCAAACAA	GIIGCIAAII	ICAGGAIGCA
2890	2900	2910	2920	2930	2940
GATCTGAGTT	CAGACCGGAG	TAATCCAGGT	CGGTTTCTAT	CTACCTTCAA	ATTCCTCCCT
CTAGACTCAA	GTCTGGCCTC	ATTAGGTCCA	GCCAAAGATA	GATGGAAGTT	TAAGGAGGGA
	• • • • • • • • • • • • • • • • • • • •				
2950	2960	2970	2980	2990	3000
CTACCAAACC	ACAAGAGAAA	ሞል ልርርርርሞልር	TTCACAAAGC	CCCTTCCCCC	GTAAATGATA
CATGCTTTCC	TGTTCTCTTT	ATTCCCGGATG	AAGTGT"I"TCG	CGGAAGGGG	CATTTACTAT
2010	2000	2020	2040	3050	3060
3010	3020	3030	3040		
TCATCTCAAC	TTAGTATTAT	ACCCACACCC	ACCCAAGAAC	AGGGTTTGTT	AAGATGGCAG
ACTACACTTC	AATCATAATA	TECETETECE	ጥርርርጥጥርጥጥር	TCCCAAACAA	TTCTACCGTC
DIIDADAIDA	MICHIMIN	100010100	1000110110	100011110111	
3070	3080	3090	3100	3110	3120
3070					
AGCCCGGTAA	TCGCATAAAA	CTTAAAACTT	TACAGTCAGA	GGTTCAATTC	CICIICIIAA
TCGGGCCATT	AGCGTATTTT	GAATTTTGAA	ATGTCAGTCT	CCAAGTTAAG	GAGAAGAATT
3130	3140	3150	3160	3170	3180
CAACATACCC	ATGGCCAACC	TCCTACTCCT	CATTGTACCC	ATTCTAATCG	CAATGGCTGA
GTTGTATGGG	TACCGGTTGG	AGGATGAGGA	GTAACATGGG	TAAGATTAGC	GITACCGACT
2100	2000	2010	2000	2220	
3190	3200	3210	3220	3230	
TCATTTGTTA	AGATGGCAGA	GCCCGGTAAT	CGCATAAAAT	GAGACCGGAT	CC
ΔΟΠΑΔΑΟΑΑΠ	TCTACCGTCT	CGGGCCATTA	CCTTATTTTT	CTCTGGCCTTA	GG
UGIUUU/UUI	TOTACCATCI	COGGCCATIA	CCCITTIAN	CICIOCCIA	

Figure 13

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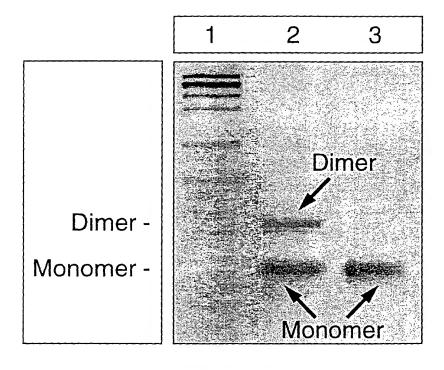


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CCCATGGAACGCTCGGG

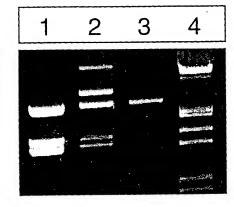
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TTTTGCAGCTGGATCCCGGGC HP2





15a

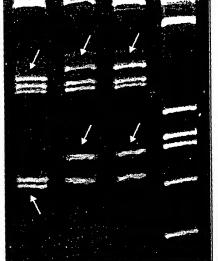


15b

1 2 3 4

right end of plasmid ⊏

left end of plasmid



2 3 4 5 replicated plasmid -'linear' plasmid – RNA-species [